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Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

*Hyd* Sheet No. *3198*

LOCALITY:

*Cook Inlet - Offshore -  
Kelgin 9 to West Foreland*

1900

CHIEF OF PARTY:

*C. G. Lulham*

3198

# 3198

Boat Sheet

C. & G. SURVEY,  
LIBRARY AND ARCHIVE

DEC 1 - 1910

Acc. No.

Dept of Commerce & Labor

C. & G. Survey.

O. H. Littman and Sup.

The Foulards to a Star.

The Foulards to South End of Kelgins.

Scale 1-120,000.

Str Yukon.

C. G. Quillian, Asst. Comd.

Absent. C. G. Quillian, S. C. Banlett  
Foreman, H. W. L. Gall C.B.M.,

Recorder W. S. Hieton, Ch. Wr.

Leadmen, F. Hoew, Q.M.<sup>2</sup>; M. Pestrikoff, Sea.

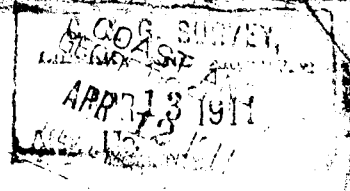
Greater part of sounding of full speed  
with Tanner-Bliss sounding tubes.

Tide Gauge. At Chisimulna Pt. maintained  
by Str Yukon, C. G. Quillian, Chief of Party.

At Seldovia, Alaska maintained by Str  
McArthur, H. L. Buck Comd. & Chief of Party

At Port Graham, Alaska, maintained by  
Str Patterson, W. E. Parker, Comd. & Chief of Party.

Descriptive Report Hydrographis Sheet No 3198.



This sheet covers off shore work westward to Kalgin Is. Soundings were made with Tanner-Bliss tubes (using only one tube on the line) with the vessel running full speed.

The eastern shore of Kalgin Island was sketched in from the ship. and the soundings made near the shore were at high water, hence cannot give information as to pinnacle rocks or isolated boulders.

The twenty fathom curve lies about five miles East of Kalgin Id. and inside the water shoals rapidly. The swiftest current is in this deep channel ~~ext~~ about three miles wide with the axis seven miles east of Kalgin Id. The current runs four to six knots and at spring tides more.

No crossings were attempted and the work was rushed to get data for the new charts before the end of the season.

The shoal water to the west of the main channel should be more closely developed with the lead.

Prevailing winds ~~wit~~ during the summer of 1910 were southerly with clear hazy weather, and blow with force of 4 to 8, at times equalling a gale. Blows usually last ~~three~~ days. N.E. winds were uncommon and brought rain. At times there was thick fog lasting a couple of days and lifting slightly in morning about 9 to 10 oclock. Fog always set in during the night.

The shores of Kalgin Id. were reported to be strewn with boulders and boulders were reported to be off shore. I think it unlikely that they lay much beyond the low water line exept north of Kalgin Id. and toward the shoal shown

on the chart as about 10 miles N.E. of the island .

A ripple which may indicate rock and does indicate some obstruction was noted  $3/8$  mile west of positions 38 to 40 K day.

Eastern shore of Kalgin Id is steep bluff about 30 to 50 ft high except the point marked with rocks, which is low and marshy. The southern point is marked by bluffs about 20 to 30 ft high.

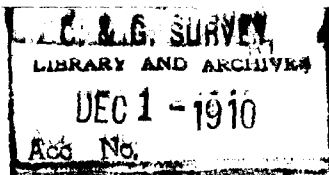
Respectfully, Submitted.

*C. G. Quillian*  
*Asst. C. G. Survey*  
*Chupof Party*

Kalgin Island is uninhabited. A fish trap is maintained by the Alaska Packers Assn. cannery at Kasitof about the center of the eastern side, during the time the fish run.

*SEE also Seaton's report 1910*

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Current station, July 21+22, off Kona at  
 ship of N.W. Fisheries Co. at anchor 8 miles off  
 shore. ~~Lat Long~~ 8 miles west of Kona.

## Statistics

Date	Letter	Vol.	Position	Sounding	Miles statute	Used
Aug 26, 1910.	A	1	42	103	31.5	ship
" 27 "	B	1	8	13	5.0	"
" 30 "	C	1	47	55	20.0	"
Sept 3 "	D	1	56	104	33.5	"
" 4 "	E	1	110	220	81.0	"
" 5 "	F	1	90	168	73.0	"
" 6 "	G	1+2	110	213	88.0	"
" 7 "	H	2	118	320	87.8	"
" 8 "	J	2	97	277	52.0	"
" 9 "	K	2	118	255	76.0	"
" 10 "	L	2+3	93	156	72.8	"
Total.	11	3	889	1884	620.6	ship.

Projection by C.S.C. & verified.

Soundings plotted in feet.

Plotted and inked by J. D. Torrey  
 Verified by R. L. Johnston.

V.E.C.  
Jan. 28, 1911.

HYDROGRAPHIC SHEET 3198.

*Breaker*  
*1/28/11*

The Forelands to South End of Kalgin Island,  
Cook Inlet, Alaska, by Asst. C. G. Quillian in 1910.

TIDES.

	Chinulna ft.
Mean lower low water, or plane of reference on staff	9.3
Lowest tide observed " "	4.8
Highest " " " "	32.8
Mean range of tide	17.7

Coast and Geodetic Survey  
JAN 28 1911  
TIDAL DIVISION

# Hydrographic Sheet #3198

Field work good and area involved well covered except a patch between Lat  $60^{\circ}27''$  -  $60^{\circ}38''$  and Longt  $151^{\circ}36''$  -  $151^{\circ}39''$  and the area east of and adjacent to S. E. Halgin and S. Halgin.

J. D. Torrey

Verified;

June 20, 1911.

Several shoal soundings which are questioned in the records were rejected by direction of Mr. Flower. A 43 ft sounding on line from pos 1 L to pos 2 L, an 84 ft sounding on line from pos 8 H to pos 9 H and an 136 ft sounding at pos 112 H.

The cuts locating White Rock and signal "Slide", which are referred to by pencil notes on the sheet, can not be found in the sounding records.

R. L. Johnston